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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/643,406	08/19/2003	Wen Fei Yu	10541-1850	3454	
29074	7590 12/14/2006	·	EXAMINER		
VISTEON C/O BRINKS	S HOFER GILSON & LI	ONE	LEO, LEONARD R		
PO BOX 103		0.1.D	ART UNIT	PAPER NUMBER	
CHICAGO,	IL 60610		3744		
			DATE MAILED: 12/14/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

			<u> </u>
	Application No.	Applicant(s)	
	10/643,406	YU, WEN FEI	
Office Action Summary	Examiner	Art Unit	
	Leonard R. Leo	3744	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wi	th the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a rely within the statutory minimum of thirt will apply and will expire SIX (6) MON a, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this com ANDONED (35 U.S.C. § 133).	nmunication.
Status			
1) Responsive to communication(s) filed on 22 S	eptember 2006.		
	action is non-final.	,	
3)☐ Since this application is in condition for allowa		ers, prosecution as to the r	nerits is
closed in accordance with the practice under E	·	·	
·	parto	,	:
Disposition of Claims			÷
4) Claim(s) 1-11 is/are pending in the application			
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-11</u> is/are rejected.			a
7) Claim(s) is/are objected to.			1
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			, ;
·· _	\p		
9) The specification is objected to by the Examine		lahinatadan kuaha Fususi	1
10) The drawing(s) filed on 22 September 2006 is/		•	ner.
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	` ,	
Replacement drawing sheet(s) including the correct	•	· ·	* 1
11)☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached	Office Action or form PTC)-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).	: · · ·
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document	s have been received.		:
Certified copies of the priority document	s have been received in A	oplication No	
3. Copies of the certified copies of the prio	rity documents have been	received in this National S	tage
application from the International Burea	u (PCT Rule 17.2(a)).		•
* See the attached detailed Office action for a list	of the certified copies not	received.	
			•
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	•
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08))/Mail Date formal Patent Application (PTO-1	152)
Paper No(s)/Mail Date	6) Other:		- .

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DETAILED ACTION

The amendment filed on September 22, 2006 has been entered. Claims 1-11 are pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The specification as originally filed lacks an adequate written description of the invention. There is no basis for the recitation "an angle between about 15 and 75 degrees" in set forth in claim 1. The Examiner suggests the calculations provided in applicant's amendment be included in the specification to provide proper support for the claim limitation.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 7-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Modine (1,730,470)(Figure 9), Modine (1,893,521) or Hughes et al (Figures 1-2). Regarding claim 1, the recitation that the "header serves as a manifold connecting in fluid communication an end of a tube to an end of a tube to an end of at least one other tube" is considered to be a statement of intended use and does not structurally define over the fins of the respective prior art references. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987).

As permissibly gleaned from Figures 7 and 9 of Modine ('470), the unlabelled step portion extends laterally at an angle of about 30 degrees with the plane of the base portion 30.

As permissibly gleaned from Figures 2-4 of Modine ('521), the unlabelled step portion extends laterally at an angle of about 45 degrees with the plane of the base portion 25, 26.

As permissibly gleaned from Figures 1-2 of Hughes et al, the step portion 11 extends laterally at an angle of about 45 degrees with the plane of the base portion 10.

Regarding claims 9-11, the juncture of respective prior art references inherently meets the claim limitations.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Modine ('470), Modine ('521) or Hughes et al.

Modine ('470), Modine ('521) or Hughes et al discloses all the claimed limitations except specific dimensions.

To employ a specific dimension is considered to be an obvious design expedient, producing no new and/or unexpected results and solving no stated problem. It would have been obvious to one of ordinary skill in the art to employ any structural dimension to achieve a desired strength, pressure drop and/or heat exchange.

Response to Arguments

The objection to the drawings is withdrawn in view of the corrected drawings.

Applicant's arguments have been fully considered but they are not persuasive.

Regarding applicant's remarks with respect to Modine ('470), Modine ('521) or Hughes et al, the Examiner agrees the references primarily disclose fins engaged with tubes. As stated in the rejection above, the recitation that the "header serves as a manifold connecting in fluid communication an end of a tube to an end of a tube to an end of at least one other tube" is considered to be a statement of intended use and does not structurally define over the fins of the respective prior art references. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987). The recitation of a "header" does not structurally define over the fins of the respective prior art references. Refer to the previous Office action for an in-depth explanation of the references.

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Again, the obviousness rejection is deemed correct for lack of any argument by applicant.

Applicant did not traverse the obviousness of employing a specific dimension to achieve a desired strength, pressure drop and/or heat exchange.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard R. Leo whose telephone number is (571) 272-4916. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LEONARD R. LEO PRIMARY EXAMINER ART UNIT 3744

December 11, 2006